

Claims

1. A device for measuring a usage of system resources in a communication network, said device comprising
- 5 means for measuring which radio resources are used by a transmission in a system;
- means for measuring which data service units are used for said transmission in a system; and
- means for measuring which transmission
- 10 characteristics are used by said transmission in a system, wherein all of said means are adapted for a respective collective measurement.
2. A device according to claim 1, wherein said
- 15 transmission characteristics comprise an information transfer capability information.
3. A device according to claim 1, further comprising evaluation means for detecting and identifying each
- 20 respective dependencies of said system resource usage by evaluating measurement results of said three measuring means.
4. A device according to claim 1, wherein said device is
- 25 part of a switching center of said communication network.
5. A device according to claim 1, wherein said device is part of a base-station subsystem of said communication network.
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6. A device according to claim 1, wherein said transmission contains high speed circuit switched data.

8. A method for measuring a usage of system resources in a communication network, said method comprising the step of

9. A method according to claim 8, wherein said transmission characteristics comprise an information transfer capability information.

detecting and identifying each respective dependencies of said system resource usage.

12. A method according to claim 8, wherein said measurements are carried out in a base-station subsystem of said communication network.

13. A method according to claim 8, wherein said transmission contains high speed circuit switched data.

5 15. A method for dimensioning system resources for a  
usage by transmissions in a system, said method  
comprising the steps of

calculating an intensity of data traffic in a  
15 communication network from reservation times of said data  
service units used by said transmissions and from release  
times of said transmissions, considering also a change of  
a radio channel configuration therein by updating said  
calculation, wherein said calculation step is performed  
20 separately for each of said circumstances of said  
transmissions;

processing said generated statistics for  
dimensioning said system resources for said usage by said  
30 transmissions in a system.

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